PATENT COOPERATION TREATY

				REC'D 1 2 JUL 2005		
om the TERNATIONAL SEAR(CHING AUTHO	RITY		WIPO PCT		
To: see form PCT/ISA/220				PCT		
			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
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Applicant's or agent's file r see form PCT/ISA/22			FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/IB2005/050909		International filing date (day/month/year) 15.03.2005		Priority date (day/month/year) 26.03.2004		
International Patent Class G06F13/38, G06F15						
Applicant KONINKLIJKE PHIL		ONICS N.V.				
1. This opinion co	ntains indicat	ions relating to the fo	ollowing items:			
Box No. I	Basis of the o	pinion .				
□ Box No. II	Priority		the waveley inventi	ve step and industrial applicability		
☐ Box No. III	Non-establish	ment of opinion with re	egard to novelty, inventi	ve step and industrial applicability		
□ Box No. IV	Lack of unity	of invention	hin t (n)/i) with repard to	o novelty, inventive step or industrial stement		
🛛 Box No. V	applicability;	citations and explanation	ons supporting such sta	tement		
☐ Box No. VI	Certain docu	ments cited	nolication			
Box No. VII		ets in the international a	ional application	·		
☐ Box No. VIII	Certain obse	rvations on the internat	november			
If a demand for written opinion the applicant of International Bu	FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to the expiration of three appropriate, with amendments, before the expiration of three					
submit to the It months from th whichever exp	PEA a written re le date of mailir ires later.	ng of Form PCT/ISA/220	e a written opinion of the propriate, with amendn D or before the expiratio	e IPEA, the applicant is invited to nents, before the expiration of three on of 22 months from the priority date,		
For further opt	ions, see Form	PCT/ISA/220.				
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Name and mailing address of the ISA:

Authorized Officer

<u>)</u>

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050909

	Box No. I Basis of the opinion
١.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
•	☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	☐ a sequence listing
	□ table(s) related to the sequence listing
	b. format of material:
	☐ in written format
	☐ in computer readable form
	c. time of filing/furnishing:
	□ contained in the international application as filed.
	☐ filed together with the international application in computer readable form.
	☐ furnished subsequently to this Authority for the purposes of search.
3	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050909

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims No:

1,2,4,5,7,8

Inventive step (IS)

Yes: Claims

Claims No:

3

Industrial applicability (IA)

Yes: Claims

1-8

6

Claims No:

2. Citations and explanations

see separate sheet

PCT/IB2005/050909

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
 - D1: Asynchronous interconnection and interfacing of Intellectual Property cores in the design of Systems-on-Chip. Jun XU.I
 - D2: An efficient On-Chip NI offering Guaranteed services, shared memory abstraction and flexible network configuration. A. Rădulescu et al.
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 2, 4, 5, 7 and 8 is not new in the sense of Article 33(2) PCT.
- 2.1 Document D1 discloses and integrated circuit (figure 5.2.2.0.2) having a plurality of processing modules (Initiator, Target) and an interconnect means for coupling said plurality of processing modules and for enabling a device-level communication based on transactions between said plurality of processing modules (page 140), wherein at least one first processing module (Initiator) issues at least one transaction towards at least one second processing module (Target) comprising:
 - at least one transaction abortion unit (figure 5.2.2.1.2 Abort Group) for aborting at least one transaction issued from said first module by receiving an abort request (REQ_ABORT_RAW) issued by said first module (Initiator), by initiating a discard of said at least one transaction to be aborted, and by issuing a response (ACK_ABORTALL_RAW) indicating the success/failure of the requested transaction abortion.

Therefore, the subject-matter of claim 1 is not new.

- 2.2 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 7 and 8, which therefore are considered not new.
- 2.3 Dependent claims 2, 4 and 5 do not contain any features which, in combination with the features of any claim to which they refer meet the requirements of the PCT in respect of novelty, see documents D1 and D2 and the corresponding

passages cited in the search report.

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 3 does not involve an inventive step in the sense of Article 33(3) PCT.
- 3.1 Dependent claim 3 does not contain any features which, in combination with the features of any claim to which it refers meet the requirements of the PCT in respect of inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.
- The combination of the features of dependent claim 6 is neither known from, nor rendered obvious by, the available prior art. The reasons are as follows:

 The system of claim 6 differs from the system D1 in that the transaction abortion specifies which transactions are to be aborted and that the response issued by the transaction abortion unit specifies which of the requested at least one transaction have been aborted.

Therefore the subject-matter of claim 6 is new.

The technical effect of theses differences is that it allows a finer grain in the specification of the transactions to abort as well as a more accurate view of the state of the system after an abort request.

The problem to be solved appears to be to off-load the interconnect and the modules from unnecessary transactions while keeping a consistent view of the state of the system.

Document D1 does not disclose nor suggest such modifications, therefore the subject-matter of **claim 6** appears to be inventive.

PATENT COOPERATION TREATY

om the ITERNATIONAL SEARCHING AUTHO			REC'D 1 2 JUL 2005 WIPO PCT	
To:	JAII T		PCT	
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
		(day/month/year) se	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A	ACTION	
International application No. PCT/IB2005/050909	International filing date (c	lay/month/year)	Priority date (day/month/year) 26.03.2004	
International Patent Classification (IPC) or G06F13/38, G06F15/173	both national classification	and IPC		
Applicant KONINKLIJKE PHILIPS ELECTR				
 This opinion contains indicat 	tions relating to the foll	owing items:		
Box No. I Basis of the o Box No.	pinion			
☐ Box No. II Priority			in the and industrial applicability	
		ard to novelty, invent	ive step and industrial applicability	
☐ Box No. IV Lack of unity ☐ Box No. V Reasoned standing applicability:	of invention atement under Rule 43 <i>bi</i> citations and explanation	s.1(a)(i) with regard to s supporting such sta	o novelty, inventive step or industrial atement	
☐ Box No. VI Certain docu				
	cts in the international ap	plication	•	
☐ Box No. VIII Certain obse	rvations on the internatio	nal application	·	
2. FURTHER ACTION				
If a demand for international promitten opinion of the Internation the applicant chooses an Auth International Bureau under Ruwill not be so considered.	ority other than this one t le 66.1 <i>bis</i> (b) that written	o be the IPEA and the opinions of this International Control of the International Control of the International Control of the International Control of the IPEA and IP		
If this opinion is, as provided a submit to the IPEA a written re months from the date of mailir whichever expires later.	bove, considered to be a pply together, where appr ng of Form PCT/ISA/220 o	written opinion of the opriate, with amenda or before the expiration	e IPEA, the applicant is invited to nents, before the expiration of three on of 22 months from the priority date,	
For further options, see Form	PCT/ISA/220.			
3. For further details, see notes t	to Form PCT/ISA/220.			
Name and mailing address of the ISA:		Authorized Officer	StePat Fritanica	

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International application No. PCT/IB2005/050909

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	a. type of t	material:
	□ as	sequence listing
	□ tat	ple(s) related to the sequence listing
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	□ in	written format
	□ in	computer readable form
	c. time of	filing/furnishing:
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	4. Additiona	al comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050909

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

1,2,4,5,7,8

Inventive step (IS)

Yes: Claims

Claims

Claims No:

3

Industrial applicability (IA)

Yes: Claims Claims No:

1-8

6

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
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Therefore, the subject-matter of claim 1 is not new.

- 2.2 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 7 and 8, which therefore are considered not new.
- 2.3 Dependent claims 2, 4 and 5 do not contain any features which, in combination with the features of any claim to which they refer meet the requirements of the PCT in respect of novelty, see documents D1 and D2 and the corresponding

passages cited in the search report.

- 3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 3 does not involve an inventive step in the sense of Article 33(3) PCT.
- 3.1 Dependent claim 3 does not contain any features which, in combination with the features of any claim to which it refers meet the requirements of the PCT in respect of inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.
- The combination of the features of dependent claim 6 is neither known from, nor rendered obvious by, the available prior art. The reasons are as follows:

 The system of claim 6 differs from the system D1 in that the transaction abortion specifies which transactions are to be aborted and that the response issued by the transaction abortion unit specifies which of the requested at least one transaction have been aborted.

Therefore the subject-matter of claim 6 is new.

The technical effect of theses differences is that it allows a finer grain in the specification of the transactions to abort as well as a more accurate view of the state of the system after an abort request.

The problem to be solved appears to be to off-load the interconnect and the modules from unnecessary transactions while keeping a consistent view of the state of the system.

Document D1 does not disclose nor suggest such modifications, therefore the subject-matter of claim 6 appears to be inventive.